

## Manmeet Singh

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**Professional Summary:** Enthusiastic cloud and DevOps enthusiast with foundational knowledge in AWS, Terraform, and related technologies. Demonstrated ability to learn and implement cloud infrastructure and DevOps practices through personal projects. Seeking a suitable role as Cloud/DevOps Engineer to leverage my passion for technology and problem-solving skills in a professional setting.

### Skills:

- **Cloud Platform:** AWS
  - Proficient in deploying and managing EC2 instances, S3 buckets, and VPCs.
  - Familiarity and hands-on experience with IAM for secure access management.
  - CloudWatch to monitor the infrastructure.
- **Infrastructure as Code:** Terraform
  - Familiar with modules, state management, and Terraform Cloud for remote operations.
  - Terraform scripts and configuration files to provision AWS resources.
- **Containerization:** Docker
  - Familiar with creating and managing Docker containers, writing Dockerfile, and optimizing container images.
- **Version Control:** Git, GitHub
  - Familiarity with Git commands.
  - Familiarity with Managing GitHub repositories and secrets management.
- **CI/CD:** GitHub Actions, AWS CodePipeline
  - Familiar with workflows, actions, and secrets management to ensure secure and efficient deployment processes. I used it for the to-do application project.
  - Familiar with AWS CodePipeline to automate end-to-end software release processes. I used it to integrate with GitHub and S3 for my Tech Portfolio project.
- **Scripting and Automation:** Bash Scripting and Python.
  - Experience with using Bash scripting in conjunction with Cron jobs for scheduling tasks.
  - Familiar with libraries such as Boto3, for interacting with AWS services.
- **Operating Systems:** Linux (Ubuntu, Amazon Linux):
  - Comfortable with Linux command line, managing users and permissions.
  - Experience with package management (apt, yum), process monitoring (top, htop), and service management (systemctl).
- **Networking:**
  - TCP/IP, DNS, DHCP, Load Balancing.
  - Experience with Fortinet and Cisco suite of products.

### Transferable Skills:

- **Technical Problem-Solving:** Developed strong troubleshooting skills through managing and resolving network and telephony issues in previous roles.
- **Project Management:** Experienced in planning, configuring, and deploying infrastructure projects, ensuring timely and efficient completion.
- **Collaboration and Communication:** Worked effectively in team environments and liaised with various stakeholders to ensure successful project outcomes.
- **Adaptability:** I quickly adapt to new technologies and environments, as evidenced by the successful deployment of both Cisco and Aruba network devices.
- **Customer Support:** Provided exceptional support to customers, ensuring high levels of satisfaction and operational excellence.

## Projects:

- **AWS Three-tier Architecture:** Deployed a highly available web application using AWS services including
  - Route 53 for DNS.
  - VPC for network isolation.
  - Auto Scaling Group for scalability.
  - RDS for database needs. RDS was just spun up as a necessary part of the infrastructure, no schema was defined.
  - Detailed design documented on [Medium](#).
- **AWS Resource Tracker Using Shell Scripting:**
  - Developed a Bash script to automate resource health checks using AWS CLI.
  - Scheduled script execution with Cron Job.
  - Detailed description on [Medium](#).
- **CI/CD Pipeline for Tech Portfolio Website:** Implemented a CI/CD pipeline using:
  - AWS CodePipeline for continuous integration and continuous delivery.
  - GitHub as code repository.
  - Automating deployment to S3 with CloudFront for fast and secure content delivery.
  - DNS managed by Route 53.
  - SSL certification via ACM.
  - Project live at [Tech Portfolio](#).
- **To-do Application:** Built a basic to-do application using:
  - HTML, CSS and JavaScript for the frontend.
  - Containerized the application via Docker.
  - Built the image via Dockerfile using GitHub Actions workflow and finally deploying it on AWS.
  - AWS infrastructure created using Terraform.
  - Detailed description on [Medium](#).
  - App can be accessed over internet on <http://tech-stuff.online>.

## Professional Experience:

### System Administrator | VGW (Oct 2023 – Current)

- Manage Fortinet suite of network equipment, including FortiGate Firewall, FortiAP, and FortiSwitch.
- Onboarding SaaS applications and integrating Single Sign-On (SSO) with Okta.
- Manage administration of Microsoft and Google Workspace.
- Managing AWS environment, including handling security alerts, spinning up new server instances, and providing support.
- Provided ongoing support for SaaS applications after onboarding, such as OpenVPN, NinjaOne, Proofpoint, and BambooHR.

### Network Administrator | Eagers Automotive (Nov 2020 – Oct 2023)

- Deployed Cisco IP telephony infrastructure and configured Cisco and Aruba network devices.
- Managed IP telephony issues and network troubleshooting, enhancing technical problem-solving skills relevant to cloud networking.
- Supported IP telephony issues nationally and troubleshot network issues related to Cisco and Aruba deployments.

**Network Engineer | Datacom** (Feb 2020 – Aug 2020)

- Assisted in incident management and troubleshooting Cisco LAN issues, providing a strong foundation in network management.

**Voice Engineer | Automotive Holdings Group** (Sept 2019 – Nov 2019)

- Configured Call flows and IVRs on Cisco Collaboration platforms, demonstrated attention to detail and technical precision.

**Incident Management Senior Specialist | Orange Business Services** (May 2014 - Aug 2019)

- Implemented and supported Cisco Collaboration environment for services including Meeting and conferences, Unified Communications and Contact Center.
- Provided L2 support and ensured operational excellence.

**Education: Bachelor of Electronics and Communication**

Amity University, India

**Certifications:**

- AWS Certified Solutions Architect – Associate.
- Hashicorp Certified Terraform Associate.
- ITIL.